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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-04-02-26** **Date: 05-04-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP,
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Sanitary works at Manjunatha Layout, Nagawara, Nagawara Colony in Ward No.06 Thanisandra.
Agency	:	Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/68/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-04-18
Sample ID No	:	2018-04-02-26 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-04-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.35	–
2	Finess by Air permeablity method (m^2/kg,Min)	277.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time (minutes)	175 minutes	Not less than 30 minutes
6	Final Setting time (minutes)	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method) (mm)	1.5mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-04-02-26** **Date: 02-05-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Sanitary works at Manjunatha Layout, Nagawara, Nagawara Colony in Ward No.06 Thanisandra.
Agency	:	Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/68/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-04-18
Sample ID No	:	2018-04-02-26 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	03-04-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results (N/mm^2)	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-04-02-26** **Date: 05-04-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Sanitary works at Manjunatha Layout, Nagawara, Nagawara Colony in Ward No.06 Thanisandra.
Agency	:	Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/68/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-04-18
Sample ID No	:	2018-04-02-26 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test		02-04-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	255	255	1.7	98.3	90-100
3	20 mm	5443	5698	38.0	62.0	30-70
4	10 mm	4766	10464	69.8	30.2	10-35
5	4.75 mm	4234	14698	98.0	2.0	0-5
6	Pan	302	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-04-02-26** **Date: 05-04-18**

Sample ID No : 2018-04-02-26 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.7**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**10.4**	
3	Specific Gravity	**2.69**	_
4	Bulk Density(Loose) (Kg/l)	**1.46**	_
5	Bulk Density(Compacted) (Kg/l)	**1.49**	_
6	Water Absorption(%)	**0.22**	_

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-04-02-26** **Date: 05-04-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Sanitary works at Manjunatha Layout, Nagawara, Nagawara Colony in Ward No.06 Thanisandra.
Agency	:	Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagar, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/68/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-04-18
Sample ID No	:	2018-04-02-26 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	02-04-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	254	254	5.1	94.9	90-100
3	10 mm	2674	2928	58.6	41.4	25-55
4	4.75 mm	1789	4717	94.3	5.7	0-10
5	Pan	283	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-04-02-26** **Date: 05-04-18**

Sample ID No : 2018-04-02-26 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.24	–
7	Aggregate crushing Value(%)	22.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-04-02-26** **Date: 05-04-18**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Sanitary works at Manjunatha Layout, Nagawara, Nagawara Colony in Ward No.06 Thanisandra.

Agency : Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/68/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-04-18

Sample ID No : 2018-04-02-26 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 02-04-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	85	85	8.5	91.5	90-100	90-100	90-100	95-100
3	2.36 mm	154	239	23.9	76.1	60-95	75-100	85-100	95-100
4	1.18 mm	166	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	179	584	58.4	41.6	15-34	35-59	60-79	80-100
6	300 micron	174	758	75.8	24.2	5-20	8-30	12-40	15-50
7	150 micron	153	911	91.1	8.9	0-10	0-10	0-10	0-15
8	Pan	89	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-04-02-26** **Date: 05-04-18**

Sample ID No : 2018-04-02-26 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.6	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	5.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID	:	**CP-2018-04-02-26** **Date: 09-04-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Sanitary works at Manjunatha Layout, Nagawara, Nagawara Colony in Ward No.06 Thanisandra.
Agency	:	Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/68/2017-18
Source of sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-04-18
Sample ID No	:	2018-04-02-26/07
Identification Mark on Brick	:	Burnt Clay Brick
Reference to BIS codes	:	IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2011) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	:	02-04-18

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	228.13	109.98	25090	92.8	3.7	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	228.98	108.62	24872	84.6	3.4	
3	231.01	107.99	24947	89.8	3.6	
4	230.11	107.54	24746	89.1	3.6	
5	228.16	106.98	24409	85.4	3.5	
Average of 5 bricks					**3.6**	

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Lab ID : **CP-2018-04-02-26** **Date: 09-04-18**

Sample ID No : **2018-04-02-26/07**

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	2.975	3.265	9.7	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.868	3.176	10.7	
3	2.906	3.196	10.0	
4	2.976	3.275	10.0	
5	2.875	3.218	11.9	
Average Water Absorption(%)			**10.5**	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	229.18	108.98	24976	Slight	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higer classes.
2	228.98	109.18	25000	Moderate	
3	228.18	108.39	24732	Slight	
4	230.19	107.98	24856	Moderate	
5	228.13	109.19	24910	Slight	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2190	2160 to 2240 mm
3	Height	1390	1360 to 1440 mm

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-04-02-26** **Date: 04-04-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Sanitary works at Manjunatha Layout, Nagawara, Nagawara Colony in Ward No.06 Thanisandra.
Agency	:	Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/68/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-04-18
Sample ID No	:	2018-04-02-26 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	03-04-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.385	545	673	19.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.626	570	687	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.889	589	698	19.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-04-02-26** **Date: 07-04-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Sanitary works at Manjunatha Layout, Nagawara, Nagawara Colony in Ward No.06 Thanisandra.
Agency	:	Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/68/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-04-18
Sample ID No	:	2018-04-02-26 /05
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	03/04/2018

Sl. No.	Identification Mark	Diameter of the core (mm)	Height of the core (mm)	Weight of the core (kg)	Area (Sq.mm)	Failure Load (KN)	Core Compressive strength (N/mm^2)	Corrected Cylinder Compressive strength (N/mm^2)	Equivalent Cube Compressive strength (N/mm^2)
1	Cover Slab-1	75.53	100.41	1.126	4480	80.6	18.0	16.7	20.9
2	Cover Slab-2	75.49	100.52	1.123	4475	83.3	18.6	17.3	21.6
3	Cover Slab-3	75.51	100.53	1.123	4477	82.5	18.4	17.1	21.4

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2018-04-02-26** **Date: 07-04-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Sanitary works at Manjunatha Layout, Nagawara, Nagawara Colony in Ward No.06 Thanisandra.
Agency	:	Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/68/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-04-18
Sample ID No	:	2018-04-02-26 /06
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	03/04/2018

Sl. No.	Identification Mark	Diameter of the core (mm)	Height of the core (mm)	Weight of the core Kg	Area (Sq.mm)	Failure Load (KN)	Core Compressive strength (N/mm2)	Corrected Cylinder Compressive strength (N/mm2)	Equivalent Cube Compressive strength (N/mm2)
1	A	100.51	165.47	2.842	7933	153.7	19.4	19.4	24.2
2	B	100.48	165.49	2.851	7928	151.2	19.1	19.1	23.8
3	C	100.51	165.52	2.865	7933	152.6	19.2	19.2	24.0

Note:

The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-18-03** **Date: 23/04/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Sanitary works at Manjunatha Layout, Nagawara, Nagawara Colony in Ward No.06 Thanisandra.

Agency : Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/68/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-04-18

Sample ID No : 2018-04-18-03 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	16/04/2018	23/04/2018	150.10 X 149.95 X 149.52	22507	8.141	195.7	8.7	8.3
2	PCC	M10	16/04/2018	23/04/2018	151.90 X 148.56 X 148.63	22566	8.132	180.4	8.0	
3	PCC	M10	16/04/2018	23/04/2018	149.96 X 150.94 X 150.65	22635	7.890	187.1	8.3	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-04-18-03** **Date: 14/05/2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Sanitary works at Manjunatha Layout, Nagawara, Nagawara Colony in Ward No.06 Thanisandra.
Agency	:	Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/68/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-04-18
Sample ID No	:	2018-04-18-03 /02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	14/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	16/04/2018	14/05/2018	149.26 X 150.18 X 150.59	22415	8.391	292.4	13.0	13.2
2	PCC	M10	16/04/2018	14/05/2018	151.55 X 150.88 X 151.37	22866	7.940	297.6	13.0	
3	PCC	M10	16/04/2018	14/05/2018	149.74 X 150.39 X 150.62	22519	8.108	302.6	13.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-21-07** **Date: 26/04/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Sanitary works at Manjunatha Layout, Nagawara, Nagawara Colony in Ward No.06 Thanisandra.

Agency : Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/68/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-04-18

Sample ID No : 2018-04-21-07 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	19/04/2018	26/04/2018	151.37 X 151.37 X 149.22	22913	8.269	424.8	18.5	18.5
2	PCC	M20	19/04/2018	26/04/2018	150.89 X 149.15 X 150.05	22505	8.490	422.5	18.8	
3	PCC	M20	19/04/2018	26/04/2018	150.55 X 149.97 X 150.07	22579	8.311	414.1	18.3	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-04-21-07** **Date: 17/05/2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Sanitary works at Manjunatha Layout, Nagawara, Nagawara Colony in Ward No.06 Thanisandra.
Agency	:	Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/68/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-18
Sample ID No	:	2018-04-21-07 /02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	19/04/2018	17/05/2018	150.67 X 149.77 X 151.40	22565	8.348	528.2	23.4	23.3
2	PCC	M20	19/04/2018	17/05/2018	150.93 X 151.67 X 151.77	22892	8.112	519.2	22.7	
3	PCC	M20	19/04/2018	17/05/2018	149.03 X 150.70 X 150.34	22459	8.437	532.6	23.7	

Note:
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